PATENT COOPERATION TREATY

RECEIVED

From the INTERNATIONAL SEARCHING AUTHORITY

MAR 2 7 2007

To: ANDREW V. SMITH	PCTackson & Co., LLP	
JACKSON & CO., LLP 6114 LA SALLE AVENUE, #507 OAKLAND, CA 94611-2802	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION	
	(PCT Rule 44.1)	
	Date of mailing (day/month/year) 0 6 MAR 2007	
Applicant's or agent's file reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below	
International application No. PCT/US06/32959	International filing date (day month/year) 22 August 2006 (22.08.2006)	
Applicant FOTONATION VISION LIMITED		
The applicant is hereby notified that the international sear have been established and are transmitted herewith.	ch report and the writte pinion of the International Searching Authority	
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla		
When? The time limit for filing such amendments is search report.	normally two months from the date of transmittal of the international	
Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.		
For more detailed instructions, see the notes on the a	ccompanying sheet.	
	ch report will be established and that the declaration under he International Searching Authority are transmitted herewith.	
3. With regard to the protest against payment of (an) additional a	tional fee(s) under Rule 40.2, the applicant is notified that:	
the protest together with the decision thereon has been request to forward the texts of both the protest and the	en transmitted to the International Bureau together with the applicant's ne decision thereon to the designated Offices.	
no decision has been made yet on the protest; the app	plicant will be notified as soon as a decision is made.	
4. Reminders		
Bureau. If the applicant wishes to avoid or postpone publication priority claim, must reach the International Bureau as provided in technical preparations for international publication.	e, the international application will be published by the International on, a notice of withdrawal of the international application, or of the national 30bis.1 and 90bis.3, respectively, before the completion of the	
International Bureau. The International Bureau will send a coppreliminary examination report has been or is to be established before the expiration of 30 months from the priority date.	the written opinion of the International Searching Authority to the y of such comments to all designated Offices unless an international These comments would also be made available to the public but not	
examination must be filed if the applicant wishes to postpone the	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date in 20 months from the priority date, perform the prescribed acts for	
In respect of other designated Offices, the time limit of 30 month	s (or later) will apply even if no demand is filed within 19 months.	
See the Annex to Form PCT/IB/301 and, for details about the ap Volume II, National Chapters and the WIPO Internet site.	plicable time limits, Office by Office, see the PCT Applicant's Guide.	
Name and mailing address of the ISA/ US	Authorized officer	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Amir Alavi	
P.O. Box 1450 Alexandria, Virginia 22313-1450	Telephone No. 571-272-7386	

PATENT COOPERATION TREATY

MAR 2 7 2007

From the INTERNATIONAL SEARCHING AUTHORITY

To: ANDREW V. SMITH JACKSON & CO., LLP 6114 LA SALLE AVENUE, #507 OAKLAND, CA 94611-2802	PCT Jackson & Co., LLP NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)			
	Date of mailing (day/month/year) 0.6 MAR 2007			
Applicant's or agent's file reference FN-143-PCT	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US06/32959	International filing date (day month/year) 22 August 2006 (22.08.2006)			
Applicant FOTONATION VISION LIMITED				
have been established and are transmitted herewith.	h report and the written opinion of the International Searching Authority			
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the clain	ns of the international application (see Rule 46):			
When? The time limit for filing such amendments is r search report.	formally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.				
For more detailed instructions, see the notes on the ac-				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months				
See the Annex to Form PCT/IB/301 and, for details about the apply Volume II, National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's Guide,			
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents	Authorized officer Amir Alavi			

Telephone No. 571-272-7386

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference FN-143-PCT		Form PCT/ISA/220 ere applicable, item 5 below			
International application No. PCT/US06/32959	International filing date (day/month/year) 22 August 2006 (22.08.2006)	(Earliest) Priority Date (day/month/year) 11 August 2006 (11.08.2006)			
Applicant FOTONATION VISION LIMITED					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the Report a. With regard to the language, the international search was carried out on the basis of: the international application in the language in which it was filed. a translation of the international application into sheet international application into sheet international application at a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)) b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. 1. Certain claims were found unsearchable (See Box No. 11) 1. With regard to the title, With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:					
may, within one month from 6. With regard to the drawings, a. the figure of the drawings to be p as suggested by the asselected by this A	according to Rule 38.2(b), by this Authority the date of mailing of this international search ublished with the abstract is Figure No. 1	report, submit comments to this Authority.			
b. none of the figures is to be pr	ublished with the abstract.				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

An image processing apparatus for tracking faces in an image stream iteratively receives a new acquired image from the image stream, the image potentially including one or more face regions. The acquired image is sub-sampled (112) at a specified resolution to provide a sub-sampled image. An integral image is then calculated for a least a portion of the sub-sampled acquired image. Fixed size face detection (120) is applied to at least a portion of the integral image to provide a set of candidate face regions. Responsive to the set of candidate face regions produced and any previously detected candidate face regions, the resolution at which a next acquired image is sub-sampled is adjusted.

Form PCT/ISA/210 (continuation of first sheet(3)) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/32959

A. CL IPC:	ASSIFICATION OF SUBJECT MATTER G06K 9/00(2006.01),9/32(2006.01),9/34(2006.0)1), 9/40 (20	006.01)	
USPC: 382/115,118,173,254,299,300 According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIE	LDS SEARCHED			·
Minimum documentation searched (classification system followed by classification symbols) U.S.: 382/115,118,173,254,299,300				
Documenta	tion searched other than minimum documentation to the	e extent that	such documents are included in	the fields searched
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
C. DO	CUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	appropriate.	of the relevant passages	Relevant to claim No.
A	US 7,082,212 A (LIU et al) 25 July 2006 (25.07.200	06), column		1-57
Furth	er documents are listed in the continuation of Box C.	<u> </u>	See patent family annex.	
	Special categories of cited documents: int defining the general state of the art which is not considered to be of ar relevance.	a-Tru	later document published after the intern date and not in conflict with the applical principle or theory underlying the invent	tion but cited to understand the tion
"E" earlier a	application or patent published on or after the international filing date	"X"	document of particular relevance, the cl- considered novel or cannot be considered	
	nt which may throw doubts on priority claim(s) or which is cited to h the publication date of another citation or other special reason (as d)	"Y"	when the document is taken alone document of particular relevance; the cle considered to involve an inventive step with one or more other such documents.	when the document is combined
"O" docume	nt referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art	
	nt published prior to the international filing date but later than the date claimed	"&"	document member of the same patent fa	
	actual completion of the international search		nailing of the international search	n report
	2007 (30.01.2007)	<u>05</u>	MAR 2007	
M Co P. Al	nailing address of the ISA/US ail Stop PCT, Attn: ISA/US ommissioner for Patents O. Box 1450 exandria, Virginia 22313-1450 o. (571) 273-3201	Authoriza Amir Ala Telephon	ed officer avi e No. 571-272-7386	

PATENT COOPERATION TREATY From the INTERNATIONAL SEARCHING AUTHORITY PCT ANDREW V. SMITH JACKSON & CO., LLP 6114 LA SALLE AVENUE, #507 WRITTEN OPINION OF THE OAKLAND, CA 94611-2802 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below FN-143-PCT International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/US06/32959 22 August 2006 (22.08.2006) 11 August 2006 (11.08.2006) International Patent Classification (IPC) or both national classification and IPC IPC: G06K 9/00(2006.01),9/32(2006.01),9/34(2006.01),9/40(2006.01) USPC: 382/115,118,173,254,299,300 Applicant FOTONATION VISION LIMITED 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application 2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66 1bis/b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. 3 For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/US Date of completion of this opinion

30 January 2007 (30.01.2007)

Telephone No. 571-272-7386

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

Commissioner for Patents P.O. Box 1450

Mail Stop PCT, Attn: ISA/US

Alexandria, Virginia 22313-1450

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/32959

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1. Statement				
Novelty (N)	Claims	1-57	YES	
		NONE		
Inventive step (IS)	Claims	1.57	YES	
inventive step (13)		1-57 NONE	NO	
Industrial applicability (IA)		<u>1-57</u>		
	Claims	NONE	NO	
2. Citations and explanations:				
having a given size and a respective location and respected face regions, adjusting the resolution at white	ch a next acqui	red image is sub-sampled.	any previously	

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is can mided;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume 11.